

SAFETY DATA SHEET



VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

Corteva Agriscience™ encourages you and expects you to read and understand the entire SDS as there is important information throughout the document. This SDS provides users with information relating to the protection of human health and safety at the workplace, protection of the environment and supports emergency response. Product users and applicators should primarily refer to the product label attached to or accompanying the product container. This Safety Data Sheet adheres to the standards and regulatory requirements of Georgia and may not meet the regulatory requirements in other countries.

1. IDENTIFICATION OF THE SUBSTANCE/MIXTURE AND OF THE COMPANY/UNDERTAKING

Product name : VYDATE® 10 L, SL

Manufacturer or supplier's details

COMPANY IDENTIFICATION

Manufacturer/importer : Corteva Agriscience International S.a.r.l.
Route de Suisse 160
CH-1290 Versoix
Switzerland

E-mail address : SDS@corteva.com


Emergency telephone number : +32 3 575 55 55

Recommended use of the chemical and restrictions on use

Recommended use : Insecticide
Nematicide

2. HAZARDS IDENTIFICATION

GHS-Labeling

Hazard pictograms : 

Signal word : Danger

Hazard statements : H300 Fatal if swallowed.
H331 Toxic if inhaled.
H412 Harmful to aquatic life with long lasting effects.

Precautionary statements : P273 Avoid release to the environment.

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

Prevention:

P261 Avoid breathing mist or vapours.
P264 Wash hands and face thoroughly after handling.

Response:

P301 + P310 IF SWALLOWED: Immediately call a POISON CENTER/ doctor.
P304 + P340 + P310 IF INHALED: Remove victim to fresh air and keep at rest in a position comfortable for breathing. Immediately call a POISON CENTER or doctor/ physician.
P321 Specific treatment (see supplemental first aid instructions on this label).
P330 Rinse mouth.

Storage:

P403 + P233 Store in a well-ventilated place. Keep container tightly closed.

Disposal:

P501 Dispose of contents/ container to an approved waste disposal plant.

Other hazards which do not result in classification

None known.

3. COMPOSITION/INFORMATION ON INGREDIENTS

Pure substance/mixture : Mixture

Components

Chemical name	CAS-No.	Classification	MAC value mg/m3 / TSEL value	Concentration (% w/w)
oxamyl (ISO)	23135-22-0	Acute Tox.1; H300 Acute Tox.2; H330 STOT SE3; H336 (Central nervous system) Aquatic Acute1; H400 Aquatic Chronic2; H411	No data available	10,0018

For explanation of abbreviations see section 16.

4. FIRST AID MEASURES

General advice : Call a physician or poison control centre immediately.
If breathing is irregular or stopped, administer artificial respiration.
Never give anything by mouth to an unconscious person.

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

- Contains an N-methyl carbamate that inhibits cholinesterase. This product contains an anticholinesterase compound. Do not use if under medical advice not to work with such compounds.
- If inhaled : Move to fresh air.
Oxygen or artificial respiration if needed.
Call a poison control center or doctor for treatment advice.
- In case of skin contact : Take off contaminated clothing and shoes immediately.
Wash off immediately with soap and plenty of water.
In the case of skin irritation or allergic reactions see a physician.
If after contact with the skin signs of poisoning appear, call a physician or poison control centre immediately.
Wash contaminated clothing before re-use.
- In case of eye contact : If easy to do, remove contact lens, if worn.
Hold eye open and rinse slowly and gently with water for 15-20 minutes.
If eye irritation persists, consult a specialist.
- If swallowed : Call a physician or poison control centre immediately.
If swallowed, drink 1 or 2 glasses of water and try once or twice to induce vomiting by touching the back of throat with finger.
Induce vomiting, but only if victim is fully conscious.
Rinse mouth with water.
Breathing difficulties
- Most important symptoms and effects, both acute and delayed : Poisoning produces effects associated with anticholinesterase activity which may include:
Weakness
blurred vision
Breathing difficulties
Nausea
Headache
Abdominal pain
discomfort in the chest
constriction of pupils
slow pulse
Sweating
muscle twitching
- Notes to physician : Administer atropine sulphate as an antidote until complete atropinisation (1.2-2.0 mg i.v. every 10-30 minutes).
2-PAM may be used as an antidote in conjunction with atropine sulphate but must not be used alone.
Contraindication: Oximes (pralidoxime), succinylcholine and other cholinergic agents, respiratory stimulants and physostigmine.
Morphine therapy is contra-indicated.

5. FIREFIGHTING MEASURES
Flammable properties

- Flash point : > 100 °C
Method: closed cup
- Flammability (solid, gas) : Does not sustain combustion.

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

- Suitable extinguishing media : Water spray
Alcohol-resistant foam
- Unsuitable extinguishing media : None known.
- Specific hazards during fire-fighting : Exposure to combustion products may be a hazard to health. Do not allow run-off from fire fighting to enter drains or water courses.
- Hazardous combustion products : Nitrogen oxides (NO_x)
Carbon oxides
- Specific extinguishing methods : Remove undamaged containers from fire area if it is safe to do so.
Evacuate area.
Use extinguishing measures that are appropriate to local circumstances and the surrounding environment.
Use water spray to cool unopened containers.
- Further information : Collect contaminated fire extinguishing water separately. This must not be discharged into drains.
Fire residues and contaminated fire extinguishing water must be disposed of in accordance with local regulations.
- Special protective equipment for firefighters : Wear self-contained breathing apparatus for firefighting if necessary.
Use personal protective equipment.

6. ACCIDENTAL RELEASE MEASURES

- Personal precautions, protective equipment and emergency procedures : Ensure adequate ventilation.
Use personal protective equipment.
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Environmental precautions : If the product contaminates rivers and lakes or drains inform respective authorities.
Discharge into the environment must be avoided.
Prevent further leakage or spillage if safe to do so.
Prevent spreading over a wide area (e.g. by containment or oil barriers).
Retain and dispose of contaminated wash water.
Local authorities should be advised if significant spillages cannot be contained.
Prevent from entering into soil, ditches, sewers, underwater.
See Section 12, Ecological Information.
- Methods and materials for containment and cleaning up : Clean up remaining materials from spill with suitable absorbant.
Local or national regulations may apply to releases and disposal of this material, as well as those materials and items employed in.
For large spills, provide dyking or other appropriate containment to keep material from spreading. If dyked material can be pumped,
Recovered material should be stored in a vented container.
The vent must prevent the ingress of water as further reaction

SAFETY DATA SHEET



VYDATE® 10 L, SL

Version 1.0 Revision Date: 14.09.2023 SDS Number: 800080000609 Date of last issue: -
Date of first issue: 14.09.2023

with spilled materials can take place which could lead to over-pressurization of the container.
Keep in suitable, closed containers for disposal.
Wipe up with absorbent material (e.g. cloth, fleece).
Neutralize with chalk, alkali solution or ammonia.
Soak up with inert absorbent material (e.g. sand, silica gel, acid binder, universal binder, sawdust).
See Section 13, Disposal Considerations, for additional information.

7. HANDLING AND STORAGE

- Local/Total ventilation : Use with local exhaust ventilation.
- Advice on safe handling : Avoid formation of aerosol.
Provide sufficient air exchange and/or exhaust in work rooms.
Do not breathe vapours/dust.
Do not smoke.
Handle in accordance with good industrial hygiene and safety practice.
Smoking, eating and drinking should be prohibited in the application area.
Do not breathe vapours or spray mist.
Keep container tightly closed.
Take care to prevent spills, waste and minimize release to the environment.
Use appropriate safety equipment. For additional information, refer to Section 8, Exposure Controls and Personal Protection.
- Conditions for safe storage : Store in a closed container.
Prevent unauthorized access.
Containers which are opened must be carefully resealed and kept upright to prevent leakage.
Keep in properly labelled containers.
Store in accordance with the particular national regulations.
- Materials to avoid : Do not store near acids.
Strong oxidizing agents
Organic peroxides
Flammable solids
Pyrophoric liquids
Self-heating substances and mixtures
Substances and mixtures, which in contact with water, emit flammable gases
Explosives
Gases
- Packaging material : Unsuitable material: None known.

8. EXPOSURE CONTROLS/PERSONAL PROTECTION

Components with workplace control parameters

Components	CAS-No.	Value type (Form of exposure)	Control parameters / Permissible concentration	Basis
oxamyl (ISO)	23135-22-0	TWA	0,05 mg/m ³	Corteva OEL

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

		STEL	0,15 mg/m ³	Corteva OEL
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- Engineering measures** : Ensure adequate ventilation, especially in confined areas. Use sufficient ventilation to keep employee exposure below recommended limits.
- Personal protective equipment**
- Respiratory protection : Respiratory protection should be worn when there is a potential to exceed the exposure limit requirements or guidelines. If there are no applicable exposure limit requirements or guidelines, use an approved respirator. Selection of air-purifying or positive-pressure supplied-air will depend on the specific operation and the potential airborne concentration of the material. For emergency conditions, use an approved positive-pressure self-contained breathing apparatus.
- Hand protection
- Remarks : Use gloves chemically resistant to this material. Examples of preferred glove barrier materials include: Butyl rubber. Natural rubber ("latex"). Neoprene. Nitrile/butadiene rubber ("nitrile" or "NBR"). Polyethylene. Ethyl vinyl alcohol laminate ("EVAL"). Polyvinyl chloride ("PVC" or "vinyl"). NOTICE: The selection of a specific glove for a particular application and duration of use in a workplace should also take into account all relevant workplace factors such as, but not limited to: Other chemicals which may be handled, physical requirements (cut/puncture protection, dexterity, thermal protection), potential body reactions to glove materials, as well as the instructions/specifications provided by the glove supplier.
- Eye protection : Wear chemical splash goggles in combination with a full-length face shield or an acid hood.
- Skin and body protection : Use protective clothing chemically resistant to this material. Selection of specific items such as face shield, boots, apron, or full body suit will depend on the task.
- Hygiene measures : Handle in accordance with good industrial hygiene and safety practice. Regular cleaning of equipment, work area and clothing. Keep working clothes separately. Contaminated work clothing should not be allowed out of the workplace. Wash hands before breaks and immediately after handling the product. When using do not eat, drink or smoke. Keep away from food, drink and animal feedingstuffs. Remove clothing/PPE immediately if material gets inside. For environmental protection remove and wash all contaminated protective equipment before re-use. Dispose of rinse water in accordance with local and national regulations.

9. PHYSICAL AND CHEMICAL PROPERTIES

- Appearance : liquid
- Colour : dark green

SAFETY DATA SHEET



VYDATE® 10 L, SL

Version 1.0 Revision Date: 14.09.2023 SDS Number: 800080000609 Date of last issue: -
Date of first issue: 14.09.2023

Odour : slight, sulphurous

pH : 3,5 (20 °C)
Concentration: 10 g/L

Flash point : > 100 °C
Method: closed cup

Flammability (solid, gas) : Does not sustain combustion.

Density : 1,023 g/cm³ (25 °C)

Solubility(ies)
Water solubility : soluble

Viscosity
Viscosity, dynamic : 2 mPa.s (25 °C)
30 rpm

Explosive properties : Not explosive

Oxidizing properties : The substance or mixture is not classified as oxidizing.

10. STABILITY AND REACTIVITY

Reactivity : Not classified as a reactivity hazard.

Chemical stability : No decomposition if stored and applied as directed.
Stable under normal conditions.

Possibility of hazardous reactions : Stable under recommended storage conditions.
No hazards to be specially mentioned.
None known.

Conditions to avoid : None known.

Incompatible materials : Strong acids
Strong bases

Hazardous decomposition products : Carbon oxides

11. TOXICOLOGICAL INFORMATION

Acute toxicity

Product:

Acute oral toxicity : LD50 (Rat, male and female): 39 mg/kg
Method: OECD Test Guideline 401
Symptoms: Lethargy

Acute inhalation toxicity : LC50 (Rat): 0,62 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

Method: OECD Test Guideline 403

Symptoms: Tremors, Lethargy

Components:**oxamyl (ISO):**

Acute oral toxicity : LD50 (Rat, male): 3,1 mg/kg
Symptoms: central nervous system effects

LD50 (Rat, female): 2,5 mg/kg
Symptoms: central nervous system effects

Acute inhalation toxicity : LC50 (Rat): 0,056 mg/l
Exposure time: 4 h
Test atmosphere: dust/mist
Method: OECD Test Guideline 403

Skin corrosion/irritation**Product:**

Species : Rabbit
Method : OECD Test Guideline 404
Result : No skin irritation

Components:**oxamyl (ISO):**

Species : Rabbit
Exposure time : 72 h
Method : OECD Test Guideline 404
Result : No skin irritation

Serious eye damage/eye irritation**Product:**

Species : Rabbit
Result : No eye irritation
Method : OECD Test Guideline 405

Components:**oxamyl (ISO):**

Species : Rabbit
Result : No eye irritation
Exposure time : 72 h
Method : OECD Test Guideline 405

Respiratory or skin sensitisation**Product:**

Species : Guinea pig
Assessment : Does not cause skin sensitisation.

SAFETY DATA SHEET



VYDATE® 10 L, SL

Version 1.0 Revision Date: 14.09.2023 SDS Number: 800080000609 Date of last issue: -
Date of first issue: 14.09.2023

Method : US EPA Test Guideline OPP 81-6

Components:

oxamyl (ISO):

Test Type : Buehler Test
Species : Guinea pig
Method : US EPA Test Guideline OPP 81-6
Result : Does not cause skin sensitisation.

Germ cell mutagenicity

Components:

oxamyl (ISO):

Germ cell mutagenicity - Assessment : In vitro genetic toxicity studies were negative., In vivo tests did not show mutagenic effects

Carcinogenicity

Components:

oxamyl (ISO):

Carcinogenicity - Assessment : Did not cause cancer in laboratory animals.

Reproductive toxicity

Components:

oxamyl (ISO):

Reproductive toxicity - Assessment : In animal studies, did not interfere with reproduction. Did not cause birth defects or any other fetal effects in laboratory animals.

STOT - single exposure

Product:

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

Components:

oxamyl (ISO):

Target Organs : Central nervous system
Assessment : May cause drowsiness or dizziness.

Assessment : Evaluation of available data suggests that this material is not an STOT-SE toxicant.

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

STOT - repeated exposure**Components:****oxamyl (ISO):**

Assessment : Evaluation of available data suggests that this material is not an STOT-RE toxicant.

Repeated dose toxicity**Components:****oxamyl (ISO):**

Remarks : Based on available data, repeated exposures are not expected to cause significant adverse effects except at very high aerosol concentrations. Repeated excessive aerosol exposures may cause respiratory tract irritation and even death. cholinesterase inhibition

Aspiration toxicity**Product:**

Based on physical properties, not likely to be an aspiration hazard.

Components:**oxamyl (ISO):**

Based on physical properties, not likely to be an aspiration hazard.

12. ECOLOGICAL INFORMATION**Ecotoxicity****Product:**

Toxicity to fish	:	LC50 (Oncorhynchus mykiss (rainbow trout)): 27 mg/l Exposure time: 96 h Method: OECD Test Guideline 203 GLP: yes
		LC50 (Lepomis macrochirus (Bluegill sunfish)): 51 mg/l Exposure time: 96 h Method: OECD Test Guideline 203
Toxicity to daphnia and other aquatic invertebrates	:	EC50 (Daphnia magna (Water flea)): 3,0 mg/l Exposure time: 48 h Method: OECD Test Guideline 202 GLP: yes
Toxicity to algae/aquatic plants	:	ErC50 (Pseudokirchneriella subcapitata (microalgae)): 34 mg/l Exposure time: 72 h Method: OECD Test Guideline 201

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

Toxicity to soil dwelling organisms : LC50 (*Eisenia fetida* (earthworms)): > 1.000 mg/kg
Exposure time: 14 d
Method: OECD Test Guideline 207

Toxicity to terrestrial organisms : LD50 (*Colinus virginianus* (Bobwhite quail)): 11 mg/kg
Method: US EPA Test Guideline OPPTS 850.2100

oral LD50 (*Apis mellifera* (bees)): 260 µg/b
Exposure time: 48 h
Method: OEPP/EPPO Test Guideline 170

contact LD50 (*Apis mellifera* (bees)): 230 µg/b
Exposure time: 48 h
Method: OEPP/EPPO Test Guideline 170

Ecotoxicology Assessment

Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Components:**oxamyl (ISO):**

Toxicity to fish : LC50 (*Oncorhynchus mykiss* (rainbow trout)): 3,13 mg/l
Exposure time: 96 h
Test Type: static test
Method: OECD Test Guideline 203

Toxicity to daphnia and other aquatic invertebrates : EC50 (*Daphnia magna* (Water flea)): 0,319 mg/l
Exposure time: 48 h
Method: OECD Test Guideline 202

Toxicity to algae/aquatic plants : NOEC (*Pseudokirchneriella subcapitata* (green algae)): 1,01 mg/l
Exposure time: 120 h
Test Type: static test
Method: OECD Test Guideline 201
GLP: yes

ErC50 (*Pseudokirchneriella subcapitata* (green algae)): 2,61 mg/l
Exposure time: 72 h
Test Type: static test
Method: OECD Test Guideline 201

EC50 (*Lemna gibba* (duckweed)): 30,0 mg/l
End point: Frond
Exposure time: 336 h
Test Type: static test
Method: US EPA Test Guideline OPP 122-2 & 123-2
GLP: yes

EC50 (*Lemna gibba* (duckweed)): 32,3 mg/l
End point: Biomass
Exposure time: 336 h
Test Type: static test

SAFETY DATA SHEET



VYDATE® 10 L, SL

Version 1.0 Revision Date: 14.09.2023 SDS Number: 800080000609 Date of last issue: -
Date of first issue: 14.09.2023

- Method: US EPA Test Guideline OPP 122-2 & 123-2
GLP: yes
- Toxicity to fish (Chronic toxicity) : NOEC (Oncorhynchus mykiss (rainbow trout)): 0,77 mg/l
Exposure time: 61 d
Test Type: Early Life-Stage
Method: US EPA Test Guideline OPP 72-4
- NOEC (Cyprinodon variegatus (sheepshead minnow)): 0,356 mg/l
Exposure time: 29 d
Method: OECD Test Guideline 210
- Toxicity to daphnia and other aquatic invertebrates (Chronic toxicity) : NOEC (Daphnia magna (Water flea)): 0,0268 mg/l
Exposure time: 21 d
Test Type: flow-through test
Method: OECD Test Guideline 202
- NOEC (Americamysis bahia (mysid shrimp)): 0,0189 mg/l
Exposure time: 28 d
- Toxicity to soil dwelling organisms : LC50 (Eisenia fetida (earthworms)): 112 parts per million
Exposure time: 14 d
- Toxicity to terrestrial organisms : LD50 (Colinus virginianus (Bobwhite quail)): 9,5 mg/kg
Method: US EPA Test Guideline OPPTS 850.2100
- LC50 (Anas platyrhynchos (Mallard duck)): 766 mg/kg
Exposure time: 8 d
Method: US EPA Test Guideline OPP 71-2
- LD50 (Apis mellifera (bees)): 0.38 µg/l
Exposure time: 48 h
Method: OEPP/EPPO Test Guideline 170
- LD50 (Apis mellifera (bees)): 0.47 µg/l
Exposure time: 48 h
Method: OEPP/EPPO Test Guideline 170

Ecotoxicology Assessment

- Chronic aquatic toxicity : Toxic to aquatic life with long lasting effects.

Persistence and degradability

Product:

- Biodegradability : Remarks: Not readily biodegradable.
Estimation based on data obtained on active ingredient.

Components:

oxamyl (ISO):

- Biodegradability : Result: Not readily biodegradable.

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

Bioaccumulative potential**Product:**

Bioaccumulation : Remarks: Does not bioaccumulate.
Estimation based on data obtained on active ingredient.

Components:**oxamyl (ISO):**

Bioaccumulation : Remarks: Does not bioaccumulate.

Partition coefficient: n-octanol/water : log Pow: -0,44
pH: 5

Mobility in soil

No data available

Other adverse effects

No data available

13. DISPOSAL CONSIDERATIONS**Disposal methods**

Waste from residues : If wastes and/or containers cannot be disposed of according to the product label directions, disposal of this material must be in accordance with your local or area regulatory authorities. This information presented below only applies to the material as supplied. The identification based on characteristic(s) or listing may not apply if the material has been used or otherwise contaminated. It is the responsibility of the waste generator to determine the toxicity and physical properties of the material generated to determine the proper waste identification and disposal methods in compliance with applicable regulations.
If the material as supplied becomes a waste, follow all applicable regional, national and local laws.

14. TRANSPORT INFORMATION**ADR**

UN number : UN 2992
Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC (Oxamyl)
Class : 6.1
Packing group : II
Labels : 6.1
Hazard Identification Number : 60
Tunnel restriction code : (D/E)
Environmentally hazardous : no

UNRTDG

UN number : UN 2992

SAFETY DATA SHEET



VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC (Oxamyl)
Class : 6.1
Packing group : II
Labels : 6.1
Environmentally hazardous : no

IATA-DGR

UN/ID No. : UN 2992
Proper shipping name : Carbamate pesticide, liquid, toxic (Oxamyl)
Class : 6.1
Packing group : II
Labels : Toxic
Packing instruction (cargo aircraft) : 662
Packing instruction (passenger aircraft) : 654

IMDG-Code

UN number : UN 2992
Proper shipping name : CARBAMATE PESTICIDE, LIQUID, TOXIC (Oxamyl)
Class : 6.1
Packing group : II
Labels : 6.1
EmS Code : F-A, S-A
Marine pollutant : yes
Remarks : Stowage category B

Transport in bulk according to Annex II of MARPOL 73/78 and the IBC Code

Not applicable for product as supplied.

Further information

Marine Pollutants assigned UN number 3077 and 3082 in single or combination packaging containing a net quantity per single or inner packaging of 5 L or less for liquids or having a net mass per single or inner packaging of 5 KG or less for solids may be transported as non-dangerous goods as provided in section 2.10.2.7 of IMDG code, IATA Special provision A197, and ADR/RID special provision 375.

Special precautions for user

The transport classification(s) provided herein are for informational purposes only, and solely based upon the properties of the unpackaged material as it is described within this Safety Data Sheet. Transportation classifications may vary by mode of transportation, package sizes, and variations in regional or country regulations.

15. REGULATORY INFORMATION

Safety, health and environmental regulations/legislation specific for the substance or mixture

VYDATE® 10 L, SL

Version	Revision Date:	SDS Number:	Date of last issue: -
1.0	14.09.2023	800080000609	Date of first issue: 14.09.2023

16. OTHER INFORMATION

Full text of H-Statements

H300	Fatal if swallowed.
H330	Fatal if inhaled.
H336	May cause drowsiness or dizziness.
H400	Very toxic to aquatic life.
H411	Toxic to aquatic life with long lasting effects.

Full text of other abbreviations

Acute Tox.	:	Acute toxicity
Aquatic Acute	:	Short-term (acute) aquatic hazard
Aquatic Chronic	:	Long-term (chronic) aquatic hazard
STOT SE	:	Specific target organ toxicity - single exposure
Corteva OEL	:	Corteva Occupational Exposure Limit
Corteva OEL / STEL	:	Short Term Exposure Limit (STEL):
Corteva OEL / TWA	:	Time Weighted Average (TWA)

ADR - Agreement concerning the International Carriage of Dangerous Goods by Road; ASTM - American Society for the Testing of Materials; ECx - Concentration associated with x% response; EmS - Emergency Schedule; ErCx - Concentration associated with x% growth rate response; GHS - Globally Harmonized System; GLP - Good Laboratory Practice; IATA - International Air Transport Association; IBC - International Code for the Construction and Equipment of Ships carrying Dangerous Chemicals in Bulk; IC50 - Half maximal inhibitory concentration; IMDG - International Maritime Dangerous Goods; IMO - International Maritime Organization; LC50 - Lethal Concentration to 50 % of a test population; LD50 - Lethal Dose to 50% of a test population (Median Lethal Dose); MARPOL - International Convention for the Prevention of Pollution from Ships; n.o.s. - not otherwise specified; NOEC - Non-Observed Effective Concentration; OECD - Organization for Economic Co-operation and Development; OPPTS - Office of Chemical Safety and Pollution Prevention; (Q)SAR - (Quantitative) Structure Activity Relationship; RID - Regulations concerning the International Carriage of Dangerous Goods by Rail; SDS - Safety Data Sheet; UN - United Nations.

NZIoC - New Zealand Inventory of Chemicals.

Further information

Other information : Take notice of the directions of use on the label.

Product code: GF-4210

The information provided in this Safety Data Sheet is correct to the best of our knowledge, information and belief at the date of its publication. The information given is designed only as a guidance for safe handling, use, processing, storage, transportation, disposal and release and is not to be considered a warranty or quality specification. The information relates only to the specific material designated and may not be valid for such material used in combination with any other materials or in any process, unless specified in the text.

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